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SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Perkin-Elmer Corporation,

 Applied Biosystems Division
- 5 (ii) TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF-QUENCHING FLUORESCENCE PROBE
 - (iii) NUMBER OF SEQUENCES: 14
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: David J. Weitz,
- 10 Haynes & Davis
 - (B) STREET: 2180 Sand Hill Road, Suite 310
 - (C) CITY: Menlo Park
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94025-6935
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: 3.5 inch diskette
 - (B) COMPUTER: IBM compatible
 - (C) OPERATING SYSTEM: Microsoft Windows 3.1/DOS
 - (D) SOFTWARE: Wordperfect for windows 6.0, ASCII (DOS) TEXT format
- 25 (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:

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	(vii) PRIOR APPLICATION DATA:	
	(A) APPLICATION NUMBER: 08/340,558	
	(B) FILING DATE: 16-NOV-94	
5	(viii) ATTORNEY/AGENT INFORMATION:	
	(A) NAME: David J. Weitz	
	(B) REGISTRATION NUMBER: 38,362	
	(C) REFERENCE/DOCKET NUMBER: PELM4264CIP2	
10	(ix) TELECOMMUNICATION INFORMATION:	
	(A) TELEPHONE: (415) 233-0188	
	(B) TELEFAX: (415) 233-1129	
	(2) INFORMATION FOR SEQ ID NO: 1:	
15	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 24 nucleotides	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
20	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:	
	ACCCACAGGA ACTGATCACC ACTC 24	:
	(2) INFORMATION FOR SEQ ID NO: 2:	
	(i) SEQUENCE CHARACTERISTICS:	
25	(A) LENGTH: 26 nucleotides	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:	

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		AIGICSCGII CCGGCIGACG IICIGC	26
		(2) INFORMATION FOR SEQ ID NO: 3:	
		(i) SEQUENCE CHARACTERISTICS:	
	5	(A) LENGTH: 27 nucleotides	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
		(D) TOPOLOGY: linear	
	10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:	
		TCGCATTACT GATCGTTGCC AACCAGT	27
		(2) INFORMATION FOR SEQ ID NO: 4	
		(i) SEQUENCE CHARACTERISTICS:	
	15	(A) LENGTH: 31 nucleotides	•
		(B) TYPE: nucleic acid	
•		(C) STRANDEDNESS: single	
2		(D) TOPOLOGY: linear	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4	
	20	GTACTGGTTG GCAACGATCA GTAATGCGAT G	31
Į			
-		(2) INFORMATION FOR SEQ ID NO: 5	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 28 nucleotides	
	25	(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
		(D) TOPOLOGY: linear	
		xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5	

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ACAAGGAT

Atty Docket No.: PELM 4264CIP2 PD/DJW W: H&D PELM 4264C2 4264C2.002

GGTATCTATG

CGGATTTGCT

28

	(2) INFORMATION FOR SEQ ID NO: 6	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 31 nucleotides	
	(B) TYPE: nucleic acid	
5	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6	
	TTCATCCTTG TCATAGATAC CAGCAAATCC G	31
10	(2) INFORMATION FOR SEQ ID NO: 7	
	(i) SEQUENCE CHARACTERISTICS:	
1001	(A) LENGTH: 25 nucleotides	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
15	(D) TOPOLOGY: linear	
5 4 7 15 4	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7	
20052	TCACCCACAC TGTGCCCATC TACGA	25
	(2) INFORMATION FOR SEQ ID NO: 8	
교 교 20	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 25 nucleotides	
	(B) TYPE: nucleic acid	
•	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
25	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8	
	CAGCGGAACC GCTCATTGCC AATGG	25
	(2) INFORMATION FOR SEQ ID NO: 9	
	(i) SEQUENCE CHARACTERISTICS:	

	(A) LENGTH: 26 nucleotides	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
5	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9	Э
	ATGCCCTCCC CCATGCCATC CTGCGT	26
	(2) INFORMATION FOR SEQ ID NO: 10	
	(i) SEQUENCE CHARACTERISTICS:	
10	(A) LENGTH: 30 nucleotides	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1	LO
15	AGACGCAGGA TGGCATGGGG GAGGGCATAC	30
	(2) INFORMATION FOR SEQ ID NO: 11	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 24 nucleotides	
20	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1	.1
	CGCCCTGGAC TTCGAGCAAG AGAT	24
25		
	(2) INFORMATION FOR SEQ ID NO: 12	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 23 nucleotides	
	(B) TYPE: nucleic acid	

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	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12	
	CCATCTCTTG CTCGAAGTCC AGGGCGAC	28
5		
	(2) INFORMATION FOR SEQ ID NO: 13	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: nucleotides	
	(B) TYPE: nucleic acid	
10	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13	
	CAAGCTTCCC GTTCTCAGCC T	21
15	(2) INFORMATION FOR SEQ ID NO: 14	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 30 nucleotides	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
20	(D) TOPOLOGY: linear	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14	
	ACCGTCAAGG CTGAGAACGG GAAGCTTGTC	30

SEQUENCE LISTING

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 - (i) APPLICANT: Perkin-Elmer Corporation,
 Applied Biosystems Division
- (ii) TITLE OF INVENTION: HYBRIDIZATION ASSAY USING SELF OUENCHING

FLUORESCENCE PROBE

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- (vii) PRIOR APPLICATION DATA:
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- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (415) 233-0188
 - (B) TELEFAX: (415) 233-1129
- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 nucleotides

(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1: ACCCACAGGA ACTGATCACC ACTC	24
<pre>(2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:</pre>	
ATGTCGCGTT CCGGCTGACG TTCTGC	26
 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: TCGCATTACT GATCGTTGCC AACCAGT	27
(2) INFORMATION FOR SEQ ID NO: 4 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4	
GTACTGGTTG GCAACGATCA GTAATGCGAT G	31
(2) INFORMATION FOR SEQ ID NO: 5 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5 CGGATTTGCT GGTATCTATG ACAAGGAT	28
(2) INFORMATION FOR SEQ ID NO: 6 (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 31 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: TTCATCCTTG TCATAGATAC CAGCAAATCC G	6 31
(2) INFORMATION FOR SEQ ID NO: 7 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: TCACCCACAC TGTGCCCATC TACGA	7
(2) INFORMATION FOR SEQ ID NO: 8 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: CAGCGGAACC GCTCATTGCC AATGG	8 25
(2) INFORMATION FOR SEQ ID NO: 9 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: ATGCCCTCCC CCATGCCATC CTGCGT	9 26
(2) INFORMATION FOR SEQ ID NO: 10 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (xi) SEQUENCE DESCRIPTION: SEQ ID NO: AGACGCAGGA TGGCATGGGG GAGGGCATAC	10
(2) INFORMATION FOR SEQ ID NO: 11 (i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 24 nucleotides(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11 CGCCCTGGAC TTCGAGCAAG AGAT	2.4
CGCCCIGGAC IICGAGCAAG AGAI	24
(2) INFORMATION FOR SEQ ID NO: 12	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 28 nucleotides	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12	
CCATCTCTTG CTCGAAGTCC AGGGCGAC	28
CCATCTCTTG CTCGAAGTCC AGGGCGAC (2) INFORMATION FOR SEQ ID NO: 13 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: nucleotides (B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: nucleotides	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13	
CAAGCTTCCC GTTCTCAGCC T	21
(2) INFORMATION FOR SEQ ID NO: 14	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 30 nucleotides	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14	
ACCGTCAAGG CTGAGAACGG GAAGCTTGTC	30